A.N.A.R.T.S. News Bulletin 1407 for 30th of July 2006

Views expressed in this news bulletin are not necessarily
those of the Broadcast Officer, the Relay Officers, or of
the Society.

Items in this broadcast include
1. Cols column
2. IPS REPORT
3. VK2SG RTTY DX report
4. ARRL NEWS
5. Anarts Information

Col's Column

Propagation of Radio Waves.

Day And Night Frequencies continued.

With the merging of the F1 and F2 layers in the F layers into the F layer, and the reduced electron density in both the E and F layers during the night hours, the MUF's for the distances indicated in last weeks broadcast, are considerably reduced, the extent of this reduction is shown in a sketch on ANARTS Web Site this weekend. See broadcast 1406 under ANARTS Broadcasts.

The increases in skip distances for particular frequencies which occur during night time are also important, particularly for mobile communications, for example ship to shore and Aircraft to Ground and Amateur Radio Mobile.

Variation of skip distance for approximate day and night conditions is also shown in a drawing on www.anarts.com on Sunday. This shows where two frequencies with a constant angle of incidence to the ionospheric conditions are compared. The diagram shows that during day time, the lower frequencies have only a short skip distance, while the higher frequencies, being refracted by the higher layers, have a greater skip distance.

At night however, refraction of the lower frequencies generally takes place at the F layer, which being higher than the E layer, give much greater skip distances for the lower frequencies.

The higher frequencies normally pass through the F layer when the angle of incidence is fairly small. However, as the angle of incidence increases, the layer returns progressively higher frequencies.

To complete this weeks sketches, one showing the differences in day and night skip distances for a ranges of frequencies will also be available on our web site this Sunday. Hope you can take advantage of these drawings.

Next week we move on to VHF/UHF propagation.

73's for this week

Col VK2CTD.

IPS Weekly Solar and Geophysical Report 21/27th Jul

SUMMARY

Date	21	22	23	24	25	26	27	
10cm flux	73	74	77	77	76	75	74	
AFr index	1	3	4	7	5	5	5	est
Aaus index	1	1	2	4	4	2	4	est
T index	21	20	26	25	28	25	21	

Solar flare activity was low on 24th and very low over the rest of the period.

Geomagnetic activity observed for the Australian Region was quiet to unsettled on 24th and quiet otherwise.

Southern Australian Ionospheric F2 critical frequencies were near predicted to 30 percent enhanced on 21st and 24th near predicted to 20 percent enhanced on 22/23rd and 26th near predicted to greater than 30 percent enhanced on 25th near predicted to 20 percent enhanced on 26th and near predicted to 10 percent enhanced on 27th.

Forecast for 28th Jul to 3rd Aug

Solar activity should be low.

Geomagnetic activity should see active conditions 31st Jul to 1st Aug and quiet to unsettled on other days.

Frequencies should be briefly depressed after local dawn 31st to 1st and near predicted monthly values on other days.

courtesy of the IPS Radio and Space Services

summary by Pat VK2JPA ANARTS Broadcast Officer

VK2SG RTTY DX NOTES FOR WEEK 27 JUL

Our thanks this week go only to AA5AU DJ3IW GU0SUP UT5RP K3GP OH2AQ DXSummit.

Bandpass:

Friday 21
0037-14087 CS25M
0102-14085 FO5EM
1142-14092 8M5HAM/6
1209-14085 UN8LF
1344-18107 VR2XMT
1451-14087 UN9PIM
1520-14085 EK6YL
1541-14079 EA8AGF
1546-14086 SV9/SV1AVD
1627-18102 V51KC
1727-14080 CS25M
1912-14079 4N150AE
2014-14084 5F50KD

2024-14085 9Z4FZ
2046-14082 OX3DB
2118-14082 EA9IB
2131-14087 HK6DOS
2139-14082 HZ1IK
2315-14088 HR2/LU1DY

Saturday 22
0659--7036 YU6AO PSK31
0813-14070 5F50YZ
1019-24920 TK/F6AUS
1029-18102 SV9CJO
1101-14085 IM0MBP
1107-14083 ED1SDF
1221-14089 YL2JZ
1253-14082 FR5AB
1454-14083 9K2HN
1514-14087 SV9/SV1AVD
1524-14082 4L8A
1544-14082 BD7KLO/7
1632-14086 VR2XLN
1700-14080 ST2T
1918-14086 OX3WS
1930-14081 CU3CC
1940-14087 9G1UW
1940-14089 HZ1IK
2148--7036 CX4AAJ
2154-14081 C37RUA
2207-14078 9Z4FZ
2231-14085 5F50KD
2233-14082 P29ZAD
2345-14083 YB1AE

Sunday 23
0042-14085 5F50KD
0046-14083 OX3DE
0106-14080 CS25M
0132-14082 9Z4FZ
0146-14085 HP1DCP
0154-14080 CS25M
0227-14086 XE1EK
0632-14085 EA6BH
0832-24922 TK/F6AUS
0837-24921 DG5PI
0922-14082 ZA4/I8YGZ
1023-24923 GU0SUP
1052-24923 EU7SA
1138-14084 HF70ZBK
1147-18100 IR8DX
1405-14080 BD7YK
1420-14081 PZ5RA
1423-28080 3A2MW
1428-14086 VR2XLN
1451-14086 TK5IH
1504-14093 SV9CVY
1557-14086 RU9CK
1610-14090 4N7TA
1620-14083 4L8A
1623-14089 HZ1IK
1626-14091 E21YDP
1630-14087 OX3WS
1633-14088 ER3ZZ
1635-14089 4N150AE

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1638-14083 UN3P
1648-14081 TA3YJ MEMORY OF TA2BK WHICH SK
1733-14082 UN8PIM
1734-14087 HR2/LU1DY
1752-14082 ZA/I8YGZ
1755-14089 9K2HN
1849-14086 EX2M
1854-14088 9G1UW
1943-14084 EA6BH
1943-14083 IM0MBP
2117-14087 HK4QMH
2122-14081 HK6DOS
2200-14086 CS25M
2204-14091 HZ1IK
2218-14082 KP4AH

Monday 24
0856-14080 BD7YK
0917-14085 5F50YZ
0929-14085 8S6EM
1152-14081 YU6DZ
1327-14082 BD7YK
1443-14086 SV9/SV1AVD
1518-14082 EC8ABQ
1619-14082 TK/F6AUS
1630-14082 TA3/DL1OO
1637-14086 OX3DB
1640-14084 VR2XLN
1659-14087 OX3DB
1706-14082 YU6DZ
1817-14082 5F50KD
1827-14081 UR2ML
1853-14090 SV9CJO
1854-14085 EA6BH
1902-14081 YU5DZ
2024-14094 9K2SR
2105-14085 HK6DOS
2112-14081 YU5DZ
2227-14079 KC2NMZ/C6A
2236-14089 HK4QHD
2241-14087 HR2/LU1DY
2318-14082 EK6TA
2326-14081 CO8ZZ
2342-14093 OX3WS

Tuesday 25
0001-14082 EK6TA
0021-14081 HR2/LU1DY
0218-10135 KP4JRS
0513-14081 YU6AR
0704-14084 TM0FIL
0838-14080 HF70ZBK
1336-14080 BD7YK
1427-14089 4N150AE
1427-14084 KC2NMZ/C6A
1428-14083 ER3ZZ
1431-14090 YU6AO
1439-14081 UN8PIM
1441-14084 TM0FIL
1442-14082 EK6TA
1527-14083 IM0MBP
1532-14085 OX3DB
1547-14081 HL5BLI
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1619-14081 HF170BZN
1758-14082 UN3P
2012-14085 3A2MW
2026-14083 TA3YJ
2045-14086 5F50IG
2237-14080 EA6BH
2319-14080 KC2NMZ/C6A
2327-14094 HR2DMR
2349-14078 HK3ARR
2351-14076 CO8ZZ

Wednesday 26
0003-14076 CO8ZZ
0004-14089 5F50KD
0008-14093 SV9CVY
0109-14082 PZ5RA
0746-14084 TA3/DL100/P
0752-14082 TM0FIL
0841-14085 5F50YZ
0938-24925 TK/F6AUS
1331-14085 VQ9LA
1426-14084 LW9ETQ
1503-14084 TF3GC
1528-14084 5F50YZ
1610-14085 EK6YL
1622-14084 TF3GC
1628-14080 YU6AO
1629-21075 EX2M
1646-14089 4K5D
1744-24924 ER1RR
1814-14081 TA3YJ
1825-14084 IM0MBP
1917-14084 9K2HN
2012-14087 SV9/SV1AVD
2047-14085 4O3T
2055-14079 KC2NMZ/C6A
2108-14094 EU8RZ
2111-14080 YU6AO
2121-14088 KP4FKN
2150-14088 YM125ATA
2157-14080 OX3DB
2213-14087 9Z4FZ

Thursday 27
0004-14081 YU6AO
0010-14078 CO8ZZ
0111-14080 OX3PG
0611-14081 TA3/DL100
0629-14082 YU150KT
0754-14089 4O3T
0803-14079 5Z4DZ
0813-14085 TM0FIL
0826-14081 YU6AO
1111-14091 OX3WS
1127-21088 YU6AO
1150-21086 5F50KD
1152-18102 VQ9LA
1220-14086 UN8LF
1221-14083 HS0ZBS
1222-14080 BD7YK
1245-14082 SV5/OK1FCJ
1248-14081 KC2NMZ/C6A
1303-14083 UN8PIM

1339-14087 VR2XMT
1349-14089 4O3T
1356-21090 3A2MW
1412-14080 9M6XRO
1455-14087 VR2XLN
1506-14085 TA1EE
1516-18104 YU150AU
1544-14089 5F50KD
1600-14084 TF3GC
1655-14084 TM0FIL
1836--7062 YP1W
1857-14079 YU6AO
2024-14078 9K2SR

Notes of interest

NEW COUNTRY DXCC. Swains Island has been added to the DXCC List. Entity number 337 qualifies as the first separation entity from American Samoa, now a Political Entity. The distance between American Samoa and Swains Island has been determined to be in excess of 350km as required by DXCC Rules Section II Paragraph 2 Section b. QSOs made with Swains Island on or after 0001Z Jul 22 06 will count for DXCC credit.

SWAINS ISLAND, KH8S. The first operation from this new DXCC Entity will be conducted by Kan JA1BK Uti KS6FO Paul F6EXV John K1ER Tets AH7C and John K8YSE under the callsign KH8SI. They plan is to leave Pago-Pago on 25 or 27 Jul and to be on the air SSB and CW on 17-160M for 3-4 days. QSL via JA1BK.

MAYOTTE, FH. Between 31 Aug/11 Sep Tom DL2RUM will be active as TX5T. Will be also on Jan DJ8NK as TX5NK from 6-160m on CW SSB and PSK. Qsl via HC.

MARKET REEF, OJ0. Sep 8/14th a large team of LA guys will be operating OJ0LA from 160 to 10m on SSB CW and RTTY.

BERMUDA, VP9. Look for VP9/K3TRM active from Aug 3/8th on SSB RTTY and CW from 160 to 6m. Qsl via Buro or direct.

You can also subscribe to the digital-dx reflector - send an email message to majordomo at mla.nifty.ne.jp as follows:
Subject: (blank) Message Body: subscribe digital-dx

For next weeks bulletin, send your bandpass and notes of interest to
Goetz DJ3IW
Gl Luciano I5FLN

CHIOS ISLAND, SV8, IOTA EU-049, MIA MG-025 EXPEDITION

George SV8GXC and Marcel PA9M will be QRV from KM38BJ in Chios Island Greece. Marcel will be active as SV8/PA9M/P from 29/7 to 10/8 in various bands and modes QSL via PA9M. George will be active as SV8GXC from 25/7 to 10/8 in 160m/80m/40m/20m/15m/10m/6m bands on PSK31 RTTY CW and SSB. The majority of SV8GXC activity will take place in 20m/40m/80m in digital modes PSK31 and RTTY. Georges activity (freq and mode) will be published ON-LINE in REAL-TIME... on the web
http://www.vastianos.com/sv8gxc-expedition and in some cases
in DX-Cluster also scheds may arranged via email 6972414304 at mycosmos.gr
QSL via SV8GXC direct, bureau, eQSL and LOTW.

As the OPDX Bulletin is not available, we offer the ARRKL DX News
in its place.

ARLD032 DX news

SAMOA, 5W. Operators KT8X, K8AQM, N8CC and JF3MYU are QRV as 5W0DW, 5W0TR, 5W0JB and 5W0KI, respectively, until Aug 10. They may be active as 5W0XX in the IOTA contest. Activity is on 160 to 10M using CW SSB and RTTY. QSL 5W0KI and 5W0XX via JF3MYU and all others via KT8X.

PHILIPPINES, DU. Peter DK2PR is QRV holiday style as DU9/DK2PR from Mindanao Island IOTA OC-130 Til Aug 15. He may also try a side trip to islands in the IOTA OC-235 group.

SPAIN, EA. A group of operators are QRV as ED7SPI from Sancti-Petri's Island IOTA EU-143 til Jul 30. They may also participate in the IOTA contest. They may also try to activate other locations within the IOTA group as well. QSL via bureau.

ST. PIERRE AND MIQUELON, FP. Paul K9OT and Peg KB9LIE are QRV as FP/ homecalls til Aug 6 from Miquelon Island IOTA NA-032. Activity is on 80 to 6M using CW and SSB. This includes an entry in the IOTA contest and the upcoming NA CW QSO Party. QSL to home calls.

ENGLAND, G. Operators G4BUO G4TSH G0FDZ G0VJG G7GLW and M3CVN are QRV til Aug 2 from St.Mary Island IOTA EU-011 as G3RCV/p or homecalls/p between Jul 26 and Aug 2. During the IOTA contest they will be active as M8C. QSL both calls via G4DFI.

SCOTLAND, GM. Steve MM1ERS and Colin GM3VCQ are QRV from Arran Island IOTA EU-123 til Aug 1. TheY will be active as MM3M in the IOTA contest. QSL via G4FAL.

WALES, GW. Several members of the North Wakefield ARC are QRV as GB4CI from Caldey Island IOTA EU-124 til Jul 31. They will be active as GW5X in the IOTA contest. QSL both calls via M3ZYZ.

THAILAND, HS. Dej E21YDP and Champ E21EIC will be QRV from Si Chang Island IOTA AS-107 during IOTA Contest. They are active as E21YDP/p on RTTY and E21EIC/p on CW and SSB. QSL E21YDP to his home call. Japanese stations QSL E21EIC via JR5XPG. All others via E21EIC.

DENMARK, OZ. Ole OZ2TF Jan OZ5JR Klaus OZ7KDJ and Erik OZ9V are QRV as OZ8MW/p from Anholt Island IOTA EU-088 til Aug 1. This includes an entry in the IOTA contest. Activity is on 80 to 10M using CW and SSB.
QSL via operators' instructions.

SWEDEN, SM. Holger KD8KW is QRV as 7S7S/6 from Kopmannebro and 7S7S from Gunnebo during the fist part of Aug. QSL via operators instructions.

GREECE, SV. George SV8GXC and Marcel PA9M will be QRV as SV8GXC and SV8/PA9M/p respectively from Chios Island IOTA EU-049 Jul 29/Aug 10. Activity will be on 160 to 6M using CW SSB RTTY and PSK31. QSL via SV8GXC.

DODECANESE, SV5. Dov 4Z4DX will be QRV as SX5P during the IOTA contest. QSL to home call.

TURKEY, TA. Berkin TA3J will be QRV as TA3J/0 from Antalya-Sican Adasi

IOTA AS-115 during the IOTA contest. QSL direct via TA3YJ.

UKRAINE, UR. A number of Ukraine operators will be QRV as EM5F from Ankudinov Island IOTA EU-182 in the IOTA contest.

INDONESIA, YB. John YB5NOF Anton YB5QZ and the team from ORARI of Riau are QRV as YE5R from Rupat Island IOTA OC-245 til Jul 30. They will also be QRV in the IOTA contest. QSL via YB5NOF.

The Society can be contacted in the following ways:
To Pat VK2JPA via patleeper at optusnet.com.au or
Col VK2CTD via ctdavies at bigpond.net.au or
you can drop a line to PO Box 93 Toongabbie NSW 2146.
73’s from Pat VK2JPA broadcast Officer
NNNN